

AKA 01 – DAY 01

BLOOD STERILIZATOR & COAGULATOR

Blood Sterilizer & Coagulator with Filter for separating the water from the solid material.

General characteristics

The blood sterilizer & coagulator is entirely made of stainless steel.

The machine is constituted by two parts:

- The sterilizer and coagulator of the blood.
- The filter for separating the water from the solid material.

The purpose of this machine is to sterilize and coagulate the blood after the slaughtering process and then to separate the solid which is produced by the coagulate and sterilize process. The liquid is directly led to the waste water treatment and the solid material is an environmentally friendly product. For the operation it is required a steam generator with capacity 1000lt/h which is not part of the complex and should be available in the slaughterhouse.





Operation of the Blood Sterilizer & Coagulator

The process of sterilization & coagulation is fully automated. The coagulator is a stainless-steel container with diameter 1250mm and height 1800mm, safety standards PN16. The total capacity is 2m³ and the load capacity is 1.0m³. To achieve the process of sterilization & coagulation the machine needs steam pressure at 6 bar and about 600kg/h. During the process of coagulation the maximum pressure in the container is 2.4 and the temperature is 133oC. The full process lasts 130min.

The feeding process of the machine with blood lasts 15min. The next step for increasing the pressure to 3bar and the temperature to the 133oC lasts 70min. Then, the machine is ready to start the sterilization and coagulation process which lasts 20min. In the end of the process it is required 25 minutes in order the coagulator to decompress the high pressure.

After the sterilization and coagulation process, the end products go directly to the filter, in order to separate the solid by the liquid material.

The dimensions of the whole system of the blood sterilizer with the filter are H.4000mm. L.4400. W.1500.